

88/10/01

Figure  
Gene

Nucleotide and Amino Acid Sequence of the h3D1 Light Chain

XbaI	<u>TCTAGACCACC</u>	ATG	GAT	TCA	CAG	GCC	CAG	GTT	CTT	ATA	TTG			
p1		►	M	D	S	Q	A	Q	V	L	I	L		
	CTG	CTG	CTA	TGG	GTA	TCT	GGC	ACC	TGT	GGG	GAC	ATT	GTG	
p11	►	L	L	L	W	V	S	G	T	C	G	D	I	V
	CTG	ACA	CAG	TCT	CCA	GAT	TCC	CTG	GCT	GTA	AGC	TTA	GGA	
p24	►	L	T	Q	S	P	D	S	L	A	V	S	L	G
	GAG	AGG	GCC	ACT	ATT	AGC	TGC	AAA	TCC	AGT	CAG	AGT	CTG	
p37	►	E	R	A	T	I	S	C	K	S	S	Q	S	L
	CTC	AAC	AGT	AGA	ACC	CGA	GAG	AAC	TAC	TTG	GCT	TGG	TAC	
p50	►	L	N	S	R	T	R	E	N	Y	L	A	W	Y
	CAG	CAG	AAA	CCA	GGG	CAG	CCT	CCT	AAA	CTG	CTG	ATC	TAC	
p63	►	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y
	TGG	GCA	TCC	ACT	AGG	GAA	TCT	GGG	GTC	CCT	GAT	CGC	TTC	
p76	►	W	A	S	T	R	E	S	G	V	P	D	R	F
	AGT	GGC	AGT	GGA	TCT	GGG	ACA	GAT	TTC	ACT	CTC	ACC	ATC	
p89	►	S	G	S	G	S	G	T	D	F	T	L	T	I
	AGC	AGT	CTG	CAG	GCT	GAA	GAC	GTG	GCA	GTT	TAT	TAC	TGC	
p102	►	S	S	L	Q	A	E	D	V	A	V	Y	Y	C
	ACG	CAA	TCT	TAT	AAT	CTT	TAC	ACG	TTC	GGA	CAG	GGG	ACC	
p115	►	T	Q	S	Y	N	L	Y	T	F	G	Q	G	T
	AAG	GTG	GAA	ATA	AAA	C	gtaagtagtcttctcaact	<u>ctagaaattctaa</u>						
p128	►	K	V	E	I	K								

actctgagggggtcggtatgacgtggccattctttgcctaaagcattgagtttac  
 tgcaagggtcagaaaagcatgcaaagccctcagaatggctgcaaagagctccaac  
 aaaacaatttagaactttattaaggaatagggggaagctaggaagaaactcaaa  
 acatcaagattttaataacgcttcttgggtctccttgctataattatctgggata  
 agcatgctgttttctgtctgtccctaacatgcctgtgattatccgcaaacaac  
 acaccaaggggcagaactttgttacttaaacaccatcctgtttgcttcttctct

VK

(continued on the next page)

Figure  
Chain Gene

(cont'd): Nucleotide and Amino Acid Sequence of the h3D1 Light

	cag	GA	ACT	GTG	GCT	GCA	CCA	TCT	GTC	TTC	ATC	TTC	CCG
p133	►	R	T	V	A	A	P	S	V	F	I	F	P
	CCA	TCT	GAT	GAG	CAG	TTG	AAA	TCT	GGA	ACT	GCC	TCT	GTT
p145	►	P	S	D	E	Q	L	K	S	G	T	A	S
	GTG	TGC	CTG	CTG	AAT	AAC	TTC	TAT	CCC	AGA	GAG	GCC	AAA
p158	►	V	C	L	L	N	N	F	Y	P	R	E	A
	GTA	CAG	TGG	AAG	GTG	GAT	AAC	GCC	CTC	CAA	TCG	GGT	AAC
p171	►	V	Q	W	K	V	D	N	A	L	Q	S	G
	TCC	CAG	GAG	AGT	GTC	ACA	GAG	CAG	GAC	AGC	AAG	GAC	AGC
p184	►	S	Q	E	S	V	T	E	Q	D	S	K	D
	ACC	TAC	AGC	CTC	AGC	AGC	ACC	CTG	ACG	CTG	AGC	AAA	GCA
p197	►	T	Y	S	L	S	S	T	L	T	L	S	K
	GAC	TAC	GAG	AAA	CAC	AAA	GTC	TAC	GCC	TGC	GAA	GTC	ACC
p210	►	D	Y	E	K	H	K	V	Y	A	C	E	V
	CAT	CAG	GGC	CTG	AGC	TCG	CCC	GTC	ACA	AAG	AGC	TTC	AAC
p223	►	H	Q	G	L	S	S	P	V	T	K	S	F
	AGG	GGA	GAG	TGT	TAG	agggagaagt	gccccccac	ctgctc	ctcagttc				
p236	►	R	G	E	C	Stop							

CK

cagcctgacccccctcccatccttttggcctctgaccctttttccacaggggac  
 ctacccctattgcggtcctccagctcatctttcacctcaccctcctcct  
 ccttggttttaattatgctaattgttgaggagaatgaataaaataaagtga  
 tctttgcacctgtggtttctctctttcctcatttaataattattatctgttg  
 ttttaccactactcaatttctcttataagggactaaatagttagtcacct  
 aaggcgcataaccatttataaaaaatcctcctcattctattttaccctatca  
 tctctgcaagacagtcctccctcaaaccacaaagccttctgtcctcacagt  
 cccctgggcatggttaggagagacttgcttctgttttccctcctcagca  
 agccctcatagtcctttttaagggtgacaggtcttacagtcataatccttt  
 gattcaattccctgggaatcaaccaaagcaaatttttcaaaagaagaacct  
 gctataaagagaatcattcattgcaacatgatataaaataacaacacaataa  
 aagcaattaaataaacaacaatagggaatgtttaagttcatcatggtact  
 tagacttaatggaatgtcatgccttatttacatttttaaacaggtactgagg  
 gactcctgtctgccaagggccgtattgagtactttccacaacctaatttaat  
 ccacactatactgtgagattaaaaacattcattaaaatgttgcaaaggttct  
 ataaagctgagagacaaatatattctataactcagcaatcccacttctagga  
 tcaattc

Figure  
Gene

Nucleotide and Amino Acid Sequence of the h3D1 Heavy Chain

XbaI TCTAGACCACC ATG GGT TGG AAC TGT ATC ATC TTC TTT CTG  
p1 ▶ M G W N C I I F F L  
GTT ACC ACA GCT ACA GGT GTG CAC TCC CAG GTC CAG CTG  
p11 ▶ V T T A T G V H S Q V Q L  
GTG CAG TCT GGG GCT GAG GTG AAG AAG CCT GGG AGC TCA  
p24 ▶ V Q S G A E V K K P G S S  
GTG AAG GTG TCC TGC AAA GCT TCC GGC TAC ACA TTC ACT  
p37 ▶ V K V S C K A S G Y T F T  
GAT TAT GCT ATA CAG TGG GTG AGA CAG GCT CCT GGA CAG  
p50 ▶ D Y A I Q W V R Q A P G Q  
GGC CTC GAG TGG ATT GGA GTT ATT AAT ATT TAC TAT GAT  
p63 ▶ G L E W I G V I N I Y Y D  
AAT ACA AAC TAC AAC CAG AAG TTT AAG GGC AAG GCC ACA  
p76 ▶ N T N Y N Q K F K G K A T  
ATG ACT GTA GAC AAG TCG ACG AGC ACA GCC TAT ATG GAA  
p89 ▶ M T V D K S T S T A Y M E  
CTT AGT TCT TTG AGA TCT GAG GAT ACG GCC GTT TAT TAC  
p102 ▶ L S S L R S E D T A V Y Y  
TGT GCA AGA GCG GCC TGG TAT ATG GAC TAC TGG GGT CAA  
p115 ▶ C A R A A W Y M D Y W G Q  
GGT ACC CTT GTC ACC GTC TCC TCA G gtagagtccttaaaacctc  
p128 ▶ G T L V T V S S XbaI  
tagagctttctggggcgagccgggctgactttggcctttggggcagggagtg  
ggctaagggtgagggcaggtggcgccagccaggtgcacacccaatgcccgtgag  
cccagacactggaccctgacctggacctcgtggatagacaagaaccgagggg  
cctctgcgcccctgggcccagctctgtcccacaccgcggtcacatggcaccac  
ctctcttgag CC TCC ACC AAG GGC CCA TCG GTC TTC CCC  
p136 ▶ A S T K G P S V F P  
CTG GCG CCC TGC TCC AGG AGC ACC TCC GAG AGC ACA GCG  
p146 ▶ L A P C S R S T S E S T A  
GCC CTG GGC TGC CTG GTC AAG GAC TAC TTC CCC GAA CCG  
p159 ▶ A L G C L V K D Y F P E P  
GTG ACG GTG TCG TGG AAC TCA GGC GCT CTG ACC AGC GGC  
p172 ▶ V T V S W N S G A L T S G  
GTG CAC ACC TTC CCA GCT GTC CTA CAG TCC TCA GGA CTC  
p185 ▶ V H T F P A V L Q S S G L  
TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AAC  
p198 ▶ Y S L S S V V T V P S S N  
TTC GGC ACC CAG ACC TAC ACC TGC AAC GTA GAT CAC AAG  
p211 ▶ F G T Q T Y T C N V D H K  
CCC AGC AAC ACC AAG GTG GAC AAG ACA GTT G gtagagggcc  
p224 ▶ P S N T K V D K T V  
agctcagggagggaggggtgtctgctggaagccaggtcagccctcctgctg  
gaagcaccctggctgtgcagccccagccagggcagcaaggcaggccccatc  
tgtctcctcaccgagggcctctgccccccccactcatgctcagggagaggg

VH

CH1

(continued on the next page)

Figure  
Chain Gene

(cont'd): Nucleotide and Amino Acid Sequence of the h3D1 Heavy

	tcttctggctttttccaccaggtccaggcaggcacaggctgggtgcccctacc	
	ccaggcccttcacacacaggggcaggtgcttggctcagacctgccaaaagccat	
	atccgggaggaccctgcccctgacctaaagccgaccccaaggccaaactgtcca	
	ctccctcagctcggacaccttctctctctccagatccgagtaactcccaatctt	
	ctctctgcag AG CGC AAA TGT TGT GTC GAG TGC CCA CCG TGC	
p234	▶ E R K C C V E C P P C	H
	CCA G gtaagccagcccaggcctcgccctccagctcaaggcgggacaggtgcc	
p245	▶ P	
	ctagagtagcctgcattccagggacaggccccagctgggtgctgacacgtccacc	
	tccatctcttctcag CA CCA CCT GCG GCA GCA CCG TCA GTC	
p246	▶ A P P A A A P S V	
	TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC	
p255	▶ F L F P P K P K D T L M I	
	TCC CGG ACC CCT GAG GTC ACG TGC GTG GTG GTG GAC GTG	
p268	▶ S R T P E V T C V V V D V	
	AGC CAC GAA GAC CCC GAG GTC CAG TTC AAC TGG TAC GTG	
p281	▶ S H E D P E V Q F N W Y V	
	GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG CCA CGG	
p294	▶ D G V E V H N A K T K P R	CH2
	GAG GAG CAG TTC AAC AGC ACG TTC CGT GTG GTC AGC GTC	
p307	▶ E E Q F N S T F R V V S V	
	CTC ACC GTT GTG CAC CAG GAC TGG CTG AAC GGC AAG GAG	
p320	▶ L T V V H Q D W L N G K E	
	TAC AAG TGC AAG GTC TCC AAC AAA GGC CTC CCA GCC CCC	
p333	▶ Y K C K V S N K G L P A P	
	ATC GAG AAA ACC ATC TCC AAA ACC AAA G gtgggacccgcggggt	
p346	▶ I E K T I S K T K	
	atgaggggccacatggacagaggccggtcggccccacctctgcccctgggagtga	
	cgcgtgtgccaaacctctgtccctacag GG CAG CCC CGA GAA CCA	
p355	▶ G Q P R E P	
	CAG GTG TAC ACC CTG CCC CCA TCC CGG GAG GAG ATG ACC	
p261	▶ Q V Y T L P P S R E E M T	
	AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC	
p374	▶ K N Q V S L T C L V K G F	
	TAC CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG	
p387	▶ Y P S D I A V E W E S N G	
	CAG CCG GAG AAC AAC TAC AAG ACC ACA CCT CCC ATG CTG	
p400	▶ Q P E N N Y K T T P P M L	CH3
	GAC TCC GAC GGC TCC TTC TTC CTC TAC AGC AAG CTC ACC	
p413	▶ D S D G S F F L Y S K L T	
	GTG GAC AAG AGC AGG TGG CAG CAG GGG AAC GTC TTC TCA	
p426	▶ V D K S R W Q Q G N V F S	
	TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC ACG	
p439	▶ C S V M H E A L H N H Y T	
	CAG AAG AGC CTC TCC CTG TCC CCG GGT AAA TGA GTGAATTC	
p452	▶ Q K S L S L S P G K	EcoRI
	*	